WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

March 10, 2011

TO:	Internal File			
THRU:	Internal File James D. Smith, Permit Supervisor April A. Abate, Environmental Scientist III 2010 Third Quarter Water Manitoring, Nevada Flori	on		
FROM:	April A. Abate, Environmental Scientist III			
RE:	2010 Third Quarter Water Monitoring, Nevada Elec Wellington Preparation Plant, C/007/0012, Task ID	cuic mvesimen	t Corporation,	
processing a	Vellington Preparation Plant is currently in temporary ctivities currently take place there, nor is the site equirements are in Sections 7.23 and 7.31.2 through MRP.	in active recla	mation. Water-	
1. On what d	ate does the MRP require a five-year re-sampling	g of baseline w	ater data.	
	ne parameters are collected in the year preceding permentation Plant was renewed on November 30, 2009		he permit for the	
2. Were data submitted for all of the MRP required sites?				
Stream	ns and Ponds	YES 🖂	NO 🗌	
4 and from pomeasure flow benzene, tolu	ermittee is required to analyze samples from streams at onds at SW-5, SW-6, SW-7, and SW-8 for the para only at SW-2. In addition, samples from SW-4 and S ene, ethylbenzene, xylene, and naphthalene (BT done quarterly.	meters in Tabl W-5 are to also	e 7.24-5, and to be analyzed for	
was measured	the third quarter 2010, samples were collected from from SW-2. None of the other monitoring locations red any water during this monitoring period.	SW-1 and SW eported flow. I	7-2A. Flow only None of the pond	
Wells		YES 🖂	NO 🗌	
The Pe	rmittee is required to analyze samples quarterly fron	n GW-1, GW-3	s, GW-4, GW-6,	

GW-7, GW-8, GW-9, GW-9B, GW-10, GW-12, GW-13, GW-14, GW-15A, GW-15B, GW-16, and

GW-17 for the parameters	in	Table 7.24-2.	and to measure	de	pth onl	y at	GW-	-2
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Wells GW-3, GW-13 and GW-17 were not sampled were reported as not having enough water in it to monitor. There was no notation in the comments that there was an is sample. However, given the depth to water measurement b was the case.	GW-13 was gauged for nadequate amount of w	water level only. ater in the well to
UPDES	YES 🖂	NO 🗌
Six UPDES permitted outfalls at the Wellington P #UTG040010-003, 004, 005, 006, 007, and 008. None of third quarter 2010.	reparation Plant are mo he UPDES sites reporte	onitored monthly: ed flow during the
3. Were all required parameters reported for each site	e?	
Streams and Ponds	YES 🖂	NO 🗌
Wells	YES 🖂	NO 🗌
UPDES	YES	NO 🗌
Not applicable		
4. Were any irregularities found in the data?		
Streams and Ponds	YES 🏻	NO 🗌

Parameters that were flagged as being outside two standard deviations were the typical parameters associated with hard water and salt. In general, these were the groundwater samples that have historically shown indicators of poor groundwater quality. The groundwater quality in the area is considered poor given the abundant sedimentary rock and the high concentrations of total dissolved solids (TDS) found along this reach of the Price River.

YES 🖂

NO 🗌

GW-1: chloride

Wells

GW-15A: TDS, sodium and potassium, chloride

GW-15B: bicarbonate, sodium and chloride

GW-	-16: calcium, hardness, chloride, bicarbonate, al	kalinity			
UPI	DES	YES	NO 🗌		
Not locations.	Applicable. No discharges were reported from	any of the UPDES m	onitoring		
	Permittee make a timely submittal of all data isfactorily explain irregular data?	, including initially YES ⊠	missing data, NO [
6. Does the Mine Permittee need to submit more information to fulfill this quarter's monitoring requirements? YES ☐ NO ☒					
7. Based o	n your review, what further actions, if any, d	lo you recommend?			
•	Monitoring wells GW-12 is frequently inund usually dry and GW-13 and GW-17 typically Since these wells are not performing as they when provided is questionable. The Division reevaluated for their usefulness and suggests not appear to be meeting the objectives of the (PHC) and current water monitoring plan in Reclamation plan.	do not yield enough were intended, the quantity recommends that the properly abandoning Probable Hydrolog	water to sample uality of the data nese wells be wells that do ic Consequences		
8. Follow-	-up from last quarter, if necessary.				

During the second quarter, surface water sample collected from SW-1 in June 2010 yielded very high levels of total suspended solids (TSS), total iron, total manganese, and settleable solids. These abnormal readings were attributed to turbid storm water runoff at this location. SW-2A at the Farnham diversion located further downstream indicated that TSS and total iron levels also spiked. This appears to be a trend that seems to occur in June, according to data from the past two years. Levels of these constituents returned to normal based on the

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sample data from the 3rd quarter.